



INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

To Commissioner For Patents

Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.

Application Number	09/899,091
Filing Date	JULY 5, 2001
First Named Inventor	INMINK SCHOUHAMER
Group Art Unit	2819
Examiner Name	PEGUY JEAN-PEIRRE
Attorney Docket Number	PHN 14-746R

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☐ cited in the specification or considered in drafting the specification of this application;

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☐ cited as an "X" or "Y" document in a foreign Patent Office search report in a foreign counterpart application, a copy of which report is also enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print Type)	MICHAEL E. BELK	Registration No. (Attorney/Agent)	33,357
Signature	<i>Michael E. Belk</i>	Date	10/9/03

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Atty. Docket No.

PHN 14-746R

Serial No.

09/899,091

Applicant

INNMINCK SCHOUHAMER ET AL.

Filing Date

7JULY 5, 2001

Group

2819

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Ex. Int		Document Number							Date	Name	Class	Sub-class	Filing Date If Approp.
	AA	4	4	9	9	4	5	4	2/1985	SHIMADA	340	347	
	AB	4	5	3	9	6	9	1	9/1985	OGAWA	375	37	
	AC	4	8	1	1	3	6	1	3/1989	BACOU ET AL	371	37	
	AD	5	1	9	8	8	1	3	3/1993	ISOZAKI	341	59	
	AE	2	9	5	7	9	4	7	10/25/60	BOWERS	179	15.6	
	AF	3	8	5	5	4	2	6	12/17/74	BOUWHUIS	179	100.3V	
	AG	4	0	2	0	2	8	2	4/26/77	HALPERN	178	68	
	AH	4	1	4	6	9	0	9	3/27/79	BECKENHAUER ET AL.	360	39	
	AI	4	2	6	1	0	1	9	4/7/81	MCCLELLAND	360	40	
	AJ	4	3	2	3	9	3	1	4/6/82	JACOBY	360	40	
	AK	4	3	8	7	3	6	4	6/7/83	SHIROTA	340	347 DD	
	AL	4	4	1	0	8	7	7	10/18/83	CARASSO ET AL.	340	347 DD	
	AM	4	4	1	3	2	5	1	11/1/83	ADLER ET AL.	340	347 DD	
	AN	4	4	1	4	6	5	9	11/8/83	BECKERS	369	59	
	AO	4	4	3	7	0	8	6	3/13/84	MILLER ET AL.	340	347 DD	
	AP	4	4	5	6	9	0	5	6/26/84	ODAKA	340	347 DD	
	AQ	4	4	6	3	3	4	4	7/31/84	ADLER ET AL.	340	347 DD	
	AR	4	5	0	1	0	0	0	2/19/85	IMMINK ET AL.	375	25	
	AS	4	5	1	7	5	5	2	5/14/85	SHIROTA ET AL.	340	347 DD	
	AT	4	5	2	0	3	4	6	5/28/85	SHIMADA	340	347 DD	
	AU	4	5	3	6	7	4	2	8/20/85	SCHOUHAMER IMMINK	340	347 DD	
	AV	4	5	7	3	0	3	4	2/25/86	SCHOUHAMER IMMINK	340	347 DD	
	AW	4	6	1	7	5	2	6	10/14/86	HIKAWA ET AL.	331	1 A	
	AX	4	6	2	0	3	1	1	10/28/86	SCHOUHAMER IMMINK	375	19	
	AY	4	6	4	1	1	2	8	2/3/87	SCHOUHAMER IMMINK	340	347 DD	
	AZ	4	6	7	5	6	5	0	6/23/87	COPPERSMITH ET AL.	340	347 DD	
	BA	4	6	8	3	5	7	2	7/28/87	BAGGEN ET AL.	371	37	



BB	4	6	9	7	1	6	7	9/29/87	O'KEEFFE ET AL.	340	347 DD	
BC	4	7	2	8	9	2	9	3/1/88	TANAKA	340	347 DD	
BD	4	7	7	9	0	7	2	10/18/88	VAN GESTEL	341	59	
BE	4	8	3	3	4	7	0	5/23/89	IKETANI	341	59	
BF	4	8	5	1	8	3	7	7/25/89	BALDWIN	341	55	
BG	4	8	5	5	7	4	2	8/8/89	VERBOOM	341	102	
BH	4	9	8	8	9	9	9	1/29/91	UEHARA ET AL.	341	59	
BI	5	0	1	6	2	5	8	5/14/91	TANAKA ET AL.	375	25	
BJ	5	0	4	8	0	0	3	9/10/91	BAGGEN ET AL.	369	59	
BK	5	1	3	6	4	3	6	8/4/92	KAHLMAN	360	40	
BL	5	1	9	6	8	4	8	3/23/93	SAKAZAKI	341	58	
BM	5	2	0	6	6	4	6	4/27/93	SAKO ET AL.	341	95	
BN	5	2	2	9	9	8	6	7/20/93	MIZOKAMI ET AL.	369	59	
BO	5	2	4	1	3	0	9	8/31/93	CIDECIYAN ET AL.	341	59	
BP	5	3	3	3	1	2	6	7/26/94	FUKUDA ET AL.	369	59	
BQ	5	3	4	1	1	3	4	8/23/94	BENJAUTHRIT	341	58	
BR	5	3	6	5	2	3	1	11/15/94	NIIMURA	341	58	
BS	5	3	7	5	2	4	9	12/20/94	CHO	395	800	
BT	5	4	5	1	9	4	3	9/19/95	SATOMURA	341	58	
BU	5	6	2	7	5	9	2	5/6/97	TICHELAAR ET AL.	348	429	
BV	5	6	4	2	1	1	3	6/24/97	SCHOUHAMER IMMINK	341	58	
BW	5	6	9	2	0	2	1	11/25/97	WALKER	375	354	
BX	5	9	2	0	2	7	2	7/6/99	SCHOUHAMER IMMINK	341	59	
BY	5	6	9	6	5	0	5	12/9/97	SCHOUHAMER IMMINK	341	59	

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		Document Number								Date	Country	Class	Sub-class	Trans.	
														Yes	No
BZ	0	3	4	7	9	3	4	A	2	12/1989	EUROPE	G11B	20/14		
CA	0	4	9	3	0	4	4	A	2	12/1991	EUROPE	H03M	7/14		
CB	2	2	6	7	4	1	6			1/1993	UNITED KINGDOM	H03M	7/00		
CC	3	6	0	5	3	9	6	A	1	27/8/87	GERMANY	H03M	7/14		
CD	0	0	5	9	2	2	4	A	1	8/9/82	EUROPE	G11B	5/09		
CE	0	1	4	3	0	0	5	A	2	29/5/85	EUROPE	H03M	5/14		
CF	0	1	9	3	1	5	3	A	2	3/9/86	EUROPE	G11B	20/14		
CG	0	3	1	0	0	4	1	A	2	5/4/89	EUROPE	H03M	5/14		
CH	0	5	0	6	4	4	6	A	1	30/9/92	EUROPE	H03M	5/14		
CI	2	0	9	4	1	0	7	A		8/9/82	UNITED KINGDOM	H04L	3/02		



CJ	2	1	1	1	8	0	5	A		6/7/83	UNITED KINGDOM	H04L	25/49		
CK	2	1	4	1	9	0	6	A		3/1/85	UNITED KINGDOM	H03K	13/24		
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CM	0	4	1	6	7	6	2	4		15/6/92	JAPAN	H03M	5/06		
CO	0	6	2	1	8	8	0	7	3	17/8/87	JAPAN	G11B	20/14		
CP	6	2	2	8	3	7	1	9		9/12/87	JAPAN	H03M	7/14		
CQ	6	3	0	1	8	8	2	2		26/1/88	JAPAN	H03M	7/14		
CR	6	3	1	7	3	2	7	4		16/7/88	JAPAN	G11B	20/12		

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CS	"A New Look-Ahead Code for Increasing Data Density," by Jacoby, G.V., IEEE Trans. Magn., vol. MAG-13, no. 5, pp. 1202-4, Sept. 1977.														
CT	"A Rate 2/3, (1,6) RLL Code" by R.L. Adler, R.K. Brayton, M. Hassner, and B.P. Kitchens, IBM Techn. Discl. Bul., vol. 27, pp. 4727-4729, 1985.														
CU	"A Rotary-head High-Density Digital Audio Tape Recorder" by H. Nakajima and K. Odaka, IEEE Trans. Consum. Electron., vol. CE-29, pp. 430-437, Aug. 1983.														
CV	"A Survey of Coding Schemes for Transmission or Recording of Digital Data" by H. Kobayashi, IEEE Trans. Commun., vol. COM-19, pp. 1087-1099, Dec. 1971.														
CW	"Algorithms for Sliding Block Codes. An Application of Symbolic Dynamics to Information Theory", by R.L. Adler, D. Coppersmith, and M. Hassner, IEEE Trans. Inform. Theory, vol. IT-29, no. 1, pp. 5-22, Jan. 1983.														
CX	"Alternative Modulation Codes for the Compact Disc" by C. French and J. Wolf, IEEE Trans. on Consum. Electron., Nov. 1988, Vol. 34, No. 4, pp.908-913.														
CY	"An Analysis Of DC Free Property On Run-Length Limited Code" by S. Tazaki, T. Kaji & H. Osawa 1986 Dummy Tijdschrift 1986 Vol. 67 pp. 151-156:														
CZ	"An Analysis Of DC Free Property On Run-Length Limited Code" Video audio and data recording sixth international conference Publ. No. 67 PP.151-156 Publ. London UK 1986 214 PP. B04.														
DA	"Binary Code Suitable for Line Transmission" by J.M. Griffiths, Electronics Letters, vol. 5, pp.79-81, 1969.														
DB	"Binary Two-thirds Rate Code with Full Word Look-Ahead" by G.V. Jacoby and R. Kost, IEEE Trans. Magn., vol. MAG-20, no. 5, pp. 709-714, Sept. 1984.														
DC	"Channel Codes for Digital Video Recording" by J.L.E. Baldwin, Institution of Electronic Radio and Engineers, Fifth International Conference on Video and Data Recording, University of Southampton, England, April 1984, Proceedings No. 59, pp.67-77.														
DD	"Coding Diagrams In Hard Disks" by Badell, C.M., Mundo Electron. (Spain), no.184, pp.63-4,67,68. May 1988.														
DE	"Coding for Constrained Channels: A Comparison of Two Approaches" by P.A. Franaszek, IBM J. Res. Develop., vol. 33, no. 6, 602-608, Nov. 1989.														
DF	"Coding Techniques for Digital Recorders" by K.A. Schouhamer Immink, 1991, ISBN 0-13-140047-9.														
DG	"Constructions of Almost Block-Decodable Runlength-Limited Codes" by K.A.S. Immink, IEEE Trans. Inform. Theory, vol. 41, no. 1, pp. 284-287, Jan. 1995.														
DH	"Finite-State Modulation Codes for Data Storage", by B.H. Marcus, P.H. Siegel, and J.K. Wolf, IEEE Journal on Selected Areas in Communications, vol. 10, no. 1, pp. 5-37, Jan. 1992.														
DI	"Low-disparity Binary Coding System" by R.O. Carter, Electronics Letters, vol. 1, pp. 65-68, May 1965.														
DJ	"Low-Frequency Suppression In RLL Codes For Optical Recording" by M. Mattavelli, Eight International Conference on Video, Audio and Data Recording. (Conf. Publ. No. 319), IEE, vii+182 PP., PP.109 15 1990.														
DK	"Mark Generation In 2,7 Code", by H.J. Gardner and W.A. Overby. IBM Technical Disclosure Bulletin Dec 1984 Vol. 27 No. 7B pp. 4274-4277.														
DL	"Modulation and Coding for Information Storage" by P.H. Siegel and J.K. Wolf, IEEE Commun. Magazine, vol. 29, no. 12, pp. 68-86, Dec. 1991.														
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DN	"Optimal Codes for Digital Magnetic Recording" by J.C. Mallinson and J.W. Miller, Radio and Elec. Eng., vol. 47, pp. 172-176, 1977.														



DO	"Optimization Of Low-Frequency Properties Of Eight-To-Fourteen Modulation" by K.A. Schouhamer Immink, U. Gross. Radio & Electron. Eng. (GB), vol.53, no.2, PP.63-6, Feb. 1983.		
DP	"Prefix-Synchronized Run-Length-Limited Sequences" by K.A.S. Immink, H. Hollmann, IEEE on Selected Areas in Communications, VOL.10, NO. 1, Jan. 1992, p.214-222.		
DQ	"Principles of Digital Line Coding" by K. Cattermole, Int. J. Electron., vol. 55, pp. 3-33, July 1983.		
DR	"Recording Codes for Digital Magnetic Storage" by P.H. Siegel, IEEE Trans. Magn., vol. MAG-21, no. 5, pp. 1344-1349, Sept. 1985.		
DS	"Run-Length Reduction of 3PM Code via Look-Ahead Technique" by M. Cohn and G.V. Jacoby, IEEE Trans. Magn., vol. MAG-18, pp. 1253-1255, Nov. 1982.		
DT	"Sliding-Block Coding for Input-Restricted Channels" by R. Karabed and B.H. Marcus, IEEE Trans. Inform. Theory, vol. IT-34, no. 1, pp. 2-26, Jan. 1988.		
DU	"The EFM Recording Code" by Dusek, K., Sdelovaci Tech. (Czechoslovakia), vol. 32, no.5, PP.177-8, May 1984.		
DV	"Waveform Compression in NRZI Magnetic Recording" by M. Berkoff, Proceedings. IEEE, vol. 52, pp. 1271-1272, Oct. 1964.		
DW	"Zero-Modulation Encoding in Magnetic Recording" by A.M. Patel, IBM J. Res. Develop., vol. 19, pp. 366-378, July 1975.		
DX	"Other Invention Disclosure Statement" May 8, 2003		
<table border="1"> <tr> <td>Examiner</td> <td>Date Considered</td> </tr> </table>		Examiner	Date Considered
Examiner	Date Considered		
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DO	"Optimization Of Low-Frequency Properties Of Eight-To-Fourteen Modulation" by K.A. Schouhamer Immink, U. Gross. Radio & Electron. Eng. (GB), vol.53, no.2, PP.63-6, Feb. 1983.		
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DU	"The EFM Recording Code" by Dusek, K., Sdelovaci Tech. (Czechoslovakia), vol. 32, no.5, PP.177-8, May 1984.		
DV	"Waveform Compression in NRZI Magnetic Recording" by M. Berkoff, Proceedings. IEEE, vol. 52, pp. 1271-1272, Oct. 1964.		
DW	"Zero-Modulation Encoding in Magnetic Recording" by A.M. Patel, IBM J. Res. Develop., vol. 19, pp. 366-378, July 1975.		
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